IN THE CLAIMS:

Claims 1, 12, 16, 26, 100, 101, 102, 112, 116, 126 and 129 are amended herein. Please note that all claims currently pending and under consideration in the referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1. (currently amended) A metallization structure for a semiconductor device, comprising:
- a substrate comprising a substantially planar upper surface; and
- a conductive line for transmitting a signal laterally across saidthe substrate, saidthe conductive line-comprising consisting essentially of:
 - a metal layer defining a pattern on a portion of the substrate upper surface;
 - a single conducting layer overlying and substantially coextensive with the metal layer,

 saidthe metal layer and saidthe single conducting layer having substantially

 aligned sidewalls and saidthe single conducting layer including an upper surface

 out of contact with any metal and defining an upper surface of saidthe conductive

 line; and
 - metal spacers flanking and extending at least substantially to a height of the sidewalls of the single conducting layer and metal layer.
- 2. (original) The metallization structure of claim 1, further comprising a dielectric layer on the substrate upper surface and underlying the metal layer.

- 3. (original) The metallization structure of claim 2, wherein the dielectric layer is silicon oxide or BPSG.
- 4. (original) The metallization structure of claim 1, wherein the metal layer is a first metal layer comprising Ti, Ta, W, Co or Mo or alloys or compounds thereof, including TaN or TiN.
- 5. (original) The metallization structure of claim 4, further including a second metal layer disposed between the first metal layer and the substrate and comprising TiN, TiW, WN, or TaN.
- 6. (original) The metallization structure of claim 5, wherein the first metal layer comprises titanium or titanium nitride.
- 7. (original) The metallization structure of claim 1, wherein the metal layer is titanium or titanium nitride.
- 8. (previously presented) The metallization structure of claim 1, wherein the single conducting layer is selected from the group comprising aluminum and copper.
- 9. (previously presented) The metallization structure of claim 8, wherein the single conducting layer is an aluminum-copper alloy.
- 10. (original) The metallization structure of claim 1, wherein the metal spacers comprise at least one layer of Ti, Ta, W, Co or Mo, or alloys thereof or compounds thereof, including TaN and TiN.

- 11. (previously presented) The metallization structure of claim 1, wherein the metal spacers are titanium or titanium nitride.
- 12. (currently amended) The metallization structure of claim 1, further comprising a dielectric layer on the single conducting layer and having sidewalls aligned with saidthe sidewalls of the single conducting layer, the metal spacers extending along the sidewalls of the dielectric layer.
- 13. (original) The metallization structure of claim 12, wherein the dielectric layer comprises a low dielectric constant material.
- 14. (original) The metallization structure of claim 13, wherein the dielectric layer is fluorine-doped silicon oxide.
- 15. (original) The metallization structure of claim 1, wherein the metal layer and the metal spacers comprise the same metal.
- 16. (currently amended) A metallization structure for a semiconductor device, comprising:
- a substrate having a metal layer extending over saidthe substrate, saidthe metal layer at least underlying a conductive line, saidthe conductive line for transmitting a signal across saidthe substrate;
- a dielectric layer having an aperture therethrough defined by at least one sidewall and exposing the metal layer, saidthe at least one sidewall of saidthe aperture defining saidthe conductive line;
- a metal spacer abutting at least one sidewall of saidthe at least one sidewall of the aperture and in contact with saidthe dielectric layer, saidthe metal spacer in contact with saidthe underlying metal layer; and

- a conductive layer in contact with saidthe metal layer and the metal spacer, saidthe metal spacer and saidthe conductive layer substantially filling the aperture, saidthe conductive layer having an upper surface substantially coincident with an upper surface of saidthe dielectric layer.
- 17. (original) The metallization structure of claim 16, wherein the metal layer comprises tantalum, titanium, tungsten, cobalt, molybdenum, or an alloy or a compound of any thereof, including TaN and TiN.
- 18. (original) The metallization structure of claim 17, wherein the metal layer is titanium or titanium nitride.
- 19. (previously presented) The metallization structure of claim 16, wherein the metal spacer includes at least one layer of metal comprising tantalum, titanium, tungsten, cobalt, molybdenum, or alloys or compounds thereof, including TaN and TiN.
- 20. (previously presented) The metallization structure of claim 19, wherein the metal spacer is titanium or titanium nitride.
- 21. (original) The metallization structure of claim 16, wherein the substrate comprises a dielectric layer underlying the metal layer.
- 22. (original) The metallization structure of claim 21, wherein the dielectric layer underlying the metal layer is silicon oxide or BPSG.
- 23. (previously presented) The metallization structure of claim 16, wherein the metal layer and the metal spacer comprise the same metal.

- 24. (original) The metallization structure of claim 16, wherein the metal layer is a first metal layer comprising Ti, Ta, W, Co or Mo or an alloy or a compound of any thereof, including TaN or TiN.
- 25. (original) The metallization structure of claim 24, further including a second metal layer disposed between the first metal layer and the substrate and comprising TiN, TiW, WN, or TaN.
- 26. (currently amended) A metallization structure for a semiconductor device, comprising:
- a substrate having a metal layer extending over saidthe substrate, saidthe metal layer at least underlying a conductive line, saidthe conductive line for transmitting a signal across saidthe substrate;
- a dielectric layer having an aperture therethrough defined by at least one sidewall and exposing the metal layer, saidthe at least one sidewall of saidthe aperture defining saidthe conductive line;
- a metal spacer abutting at least one sidewall of saidthe at least one sidewall of the aperture and in contact with saidthe dielectric layer, saidthe metal spacer in contact with saidthe underlying metal layer;
- a conductive layer in contact with saidthe metal layer and the metal spacer, saidthe metal spacer and saidthe conductive layer nearly filling the aperture; and
- at least one upper metal layer on the conductive layer comprising Ti, Ta, W, Co or Mo or an alloy or a compound of any thereof, including TaN or TiN, saidthe at least one upper metal layer being disposed within saidthe aperture laterally adjacent saidthe metal spacer and having an upper surface substantially coincident with an upper surface of saidthe dielectric layer and an uppermost extent of saidthe metal spacer.

- 27. (original) The metallization structure of claim 26, wherein the at least one upper metal layer comprises a plurality of upper metal layers.
- 28. (previously presented) The metallization structure of claim 26, wherein the at least one upper metal layer comprises titanium or titanium nitride.

29-99. (canceled)

- 100. (currently amended) The metallization structure of claim 2, wherein saidthe dielectric layer extends completely underneath saidthe conductive line.
- 101. (currently amended) The metallization structure of claim 16, wherein saidthe aperture contains conductive material.
- 102. (currently amended) A structure for transmitting a signal across a semiconductor device, saidthe structure comprising:
- a substrate comprising a substantially planar upper surface; and
- a conductive line extending over <u>said</u>the upper surface and isolated therefrom by a dielectric layer at least underlying <u>said</u>the conductive line, <u>said</u>the conductive line <u>comprising</u> <u>consisting essentially of</u>:
 - a metal layer above saidthe dielectric layer, saidthe metal layer defining a pattern on a portion of the substrate upper surface;
 - a single conducting layer overlying and substantially coextensive with the metal layer,

 saidthe metal layer and saidthe single conducting layer having substantially

 aligned sidewalls, wherein an upper surface of saidthe single conductive layer is

 out of contact with any metal and defines an upper surface of saidthe conductive

 line; and

metal spacers flanking and extending at least substantially to a height of the sidewalls of

the single conducting layer and metal layer.

- 103. (previously presented) The structure of claim 102, wherein the dielectric layer is silicon oxide or BPSG.
- 104. (previously presented) The structure of claim 102, wherein the metal layer is a first metal layer comprising Ti, Ta, W, Co or Mo or alloys or compounds thereof, including TaN or TiN.
- 105. (previously presented) The structure of claim 104, further including a second metal layer disposed between the first metal layer and the substrate and comprising TiN, TiW, WN, or TaN.
- 106. (previously presented) The structure of claim 105, wherein the first metal layer comprises titanium or titanium nitride.
- 107. (previously presented) The structure of claim 102, wherein the metal layer is titanium or titanium nitride.
- 108. (previously presented) The structure of claim 102, wherein the single conducting layer is selected from the group comprising aluminum and copper.
- 109. (previously presented) The structure of claim 108, wherein the single conducting layer is an aluminum-copper alloy.
- 110. (previously presented) The structure of claim 102, wherein the metal spacers comprise at least one layer of Ti, Ta, W, Co or Mo, or alloys thereof or compounds thereof, including TaN and TiN.

- 111. (previously presented) The structure of claim 102, wherein the metal spacers are titanium or titanium nitride.
- 112. (currently amended) The structure of claim 102, further comprising a dielectric layer on the single conducting layer and having sidewalls aligned with saidthe sidewalls of the single conducting layer, the metal spacers extending along the sidewalls of the dielectric layer.
- 113. (previously presented) The structure of claim 112, wherein the dielectric layer comprises a low dielectric constant material.
- 114. (previously presented) The structure of claim 113, wherein the dielectric layer is fluorine-doped silicon oxide.
- 115. (previously presented) The structure of claim 102, wherein the metal layer and the metal spacers comprise the same metal.
- 116. (currently amended) A structure for transmitting a signal laterally across a substrate of a semiconductor device, saidthe structure comprising:
- a substrate having a metal layer of a conductive line disposed thereon;
- a dielectric layer above saidthe metal layer, saidthe dielectric layer having an aperture therethrough defined by at least one sidewall and exposing the metal layer, saidthe aperture at least extending a length of saidthe conductive line;
- a metal spacer flanking at least one sidewall of saidthe at least one sidewall of the aperture and in contact with saidthe dielectric layer, saidthe metal spacer in contact with saidthe underlying metal layer; and
- a conductive layer in contact with saidthe metal layer and the metal spacer, saidthe metal spacer and saidthe conductive layer substantially filling the aperture, saidthe conductive layer

having an upper surface substantially coincident with an upper surface of saidthe dielectric layer.

- 117. (previously presented) The structure of claim 116, wherein the metal layer comprises tantalum, titanium, tungsten, cobalt, molybdenum, or an alloy or a compound of any thereof, including TaN and TiN.
- 118. (previously presented) The structure of claim 117, wherein the metal layer is titanium or titanium nitride.
- 119. (previously presented) The structure of claim 116, wherein the metal spacer includes at least one layer of metal comprising tantalum, titanium, tungsten, cobalt, molybdenum, or alloys or compounds thereof, including TaN and TiN.
- 120. (previously presented) The structure of claim 119, wherein the metal spacer is titanium or titanium nitride.
- 121. (previously presented) The structure of claim 116, wherein the substrate comprises a dielectric layer underlying the metal layer.
- 122. (previously presented) The structure of claim 121, wherein the dielectric layer underlying the metal layer is silicon oxide or BPSG.
- 123. (previously presented) The structure of claim 116, wherein the metal layer and the metal spacer comprise the same metal.

- 124. (previously presented) The structure of claim 116, wherein the metal layer is a first metal layer comprising Ti, Ta, W, Co or Mo or an alloy or a compound of any thereof, including TaN or TiN.
- 125. (previously presented) The structure of claim 124, further including a second metal layer disposed between the first metal layer and the substrate and comprising TiN, TiW, WN, or TaN.
- 126. (currently amended) A structure for transmitting a signal laterally across a substrate of a semiconductor device, saidthe structure comprising:
- a substrate having a metal layer of a conductive line disposed thereon;
- a dielectric layer above saidthe metal layer, saidthe dielectric layer having an aperture therethrough defined by at least one sidewall and exposing the metal layer, saidthe aperture at least extending a length of saidthe conductive line;
- a metal spacer flanking at least one sidewall of saidthe at least one sidewall of the aperture and in contact with saidthe dielectric layer, saidthe metal spacer in contact with saidthe underlying metal layer;
- a conductive layer in contact with saidthe metal layer and the metal spacer, saidthe metal spacer and saidthe conductive layer nearly filling the aperture; and
- at least one upper metal layer on the conductive layer and comprising Ti, Ta, W, Co or Mo or an alloy or a compound of any thereof, including TaN or TiN, saidthe at least one upper metal layer being disposed within saidthe aperture laterally adjacent saidthe metal spacer and having an upper surface substantially coincident with an upper surface of saidthe dielectric layer and an uppermost extent of saidthe metal spacer.
- 127. (previously presented) The structure of claim 126, wherein the at least one upper metal layer comprises a plurality of upper metal layers.

- 128. (previously presented) The structure of claim 126, wherein the at least one upper metal layer comprises titanium or titanium nitride.
- 129. (currently amended) The structure of claim 116, wherein saidthe metal spacer extends substantially a height of saidthe at least one sidewall.